

PHASE CHART

	1	2	3	4	5	6	7	8	9	10	11	12	
PHASE 1 + 5	←G	←G	R	R	←G	←G	R	R	R	R	R	R	→
1 + 5 CHANGE	TO 1+6, 2+5 OR 2+6												→
PHASE 1 + 6	←R	←R	R	R	←G	←G	R	R	R	R	R	R	←
1 + 6 CHANGE	←R	←R	R	R	←Y	←Y	R	R	R	R	R	R	←
PHASE 2 + 5	←G	←G	G	G	←R	←R	R	R	R	R	R	R	→
2 + 5 CHANGE	←Y	←Y	G	G	←R	←R	R	R	R	R	R	R	→
PHASE 2 + 6	←R	←R	G	G	←R	←R	G	R	R	R	R	R	↔
2 + 6 CHANGE	←R	←R	Y	Y	←R	←R	Y	Y	R	R	R	R	↔
PHASE 3	←R	←R	R	R	←R	←R	R	R	R	R	G/←G	G	↕
3 CHANGE	←R	←R	R	R	←R	←R	R	R	R	R	Y	Y	↕
PHASE 4	←R	←R	R	R	←R	←R	R	R	G/←G	G	R	R	↕
4 CHANGE	←R	←R	R	R	←R	←R	R	R	Y	Y	R	R	↕
FLASHING OPERATION	FL/R	FL/R	FL/Y	FL/Y	FL/R	FL/R	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	↕

PRE-EMPTION PHASES

PE #1	←G	←G	G	G	←R	←R	R	R	R	R	R	R	→
PE #1 CHANGE	←Y	←Y	Y	Y	←R	←R	R	R	R	R	R	R	→
PE #2	←R	←R	R	R	←R	←R	R	R	G/←G	G	R	R	↕
PE #2 CHANGE	←R	←R	R	R	←R	←R	R	R	Y	Y	R	R	↕

NOTE:
SIGNAL HEAD 5a AND ALL PEDESTRIAN SIGNAL HEADS ARE TO BE COVERED DURING CONSTRUCTION.

PROJECT DESCRIPTION

GENERAL:
THIS PROJECT INVOLVES THE MODIFICATION OF THE EXISTING INTERSECTION TRAFFIC SIGNAL AND STREET LIGHTING AT MD 235 AND MAPLE ROAD IN ST. MARY'S COUNTY. MD 235 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION.

INTERSECTION OPERATION:
1. NORMAL OPERATION

THE INTERSECTION WILL OPERATE IN A NEMA SIX-PHASE, FULL-TRAFFIC ACTUATED MODE, WITH THE MD 235 APPROACHES RUNNING CONCURRENTLY AND MD 237-MAPLE ROAD APPROACHES OPERATING AS SPLIT PHASES. EXCLUSIVE LEFT TURN PHASING WILL BE PROVIDED FOR THE MD 235 APPROACHES.

2. SPECIAL OPERATION

THE INTERSECTION WILL OPERATE AS INDICATED ABOVE UNLESS THE OPTICOM DEVICE IS ACTIVATED WHICH WILL PRE-EMPT THE TRAFFIC SIGNAL AND STOP THE NB, EB AND WB APPROACHES.

CONTROLLER REQUIREMENTS:
A FULL-TRAFFIC-ACTUATED, EIGHT-PHASE CONTROLLER WITH FIVE (5) FOUR-CHANNEL, TIME DELAY OUTPUT LOOP DETECTOR AMPLIFIERS. INTERSECTION MONITOR WITH BATTERY BACK-UP FOR PHONE DROP, TELEMETRY MODULE, ISOLATION BOARD AND SPECIAL RELAY HOUSED IN A NEMA SIZE "6" BASE MOUNTED CABINET.

SPECIAL NOTE:
UPON COMPLETION OF THIS PROJECT, THE CONTRACTOR SHALL NOTIFY MR. ROBERT SNYDER OF SHA AT (410) 787-7631 TO ARRANGE FOR THE PHONE LINE INSTALLATION. THE CONTRACTOR IS TO PROVIDE MR. SNYDER WITH THE NEAREST STREET ADDRESS, ZIP CODE AND PHONE NUMBER.

PROJECT CONTACTS

THE CONTACT PERSONS FOR DISTRICT #5 ARE AS FOLLOWS:

MR. PAUL ARMSTRONG
DISTRICT ENGINEER
PHONE: 410-841-5450

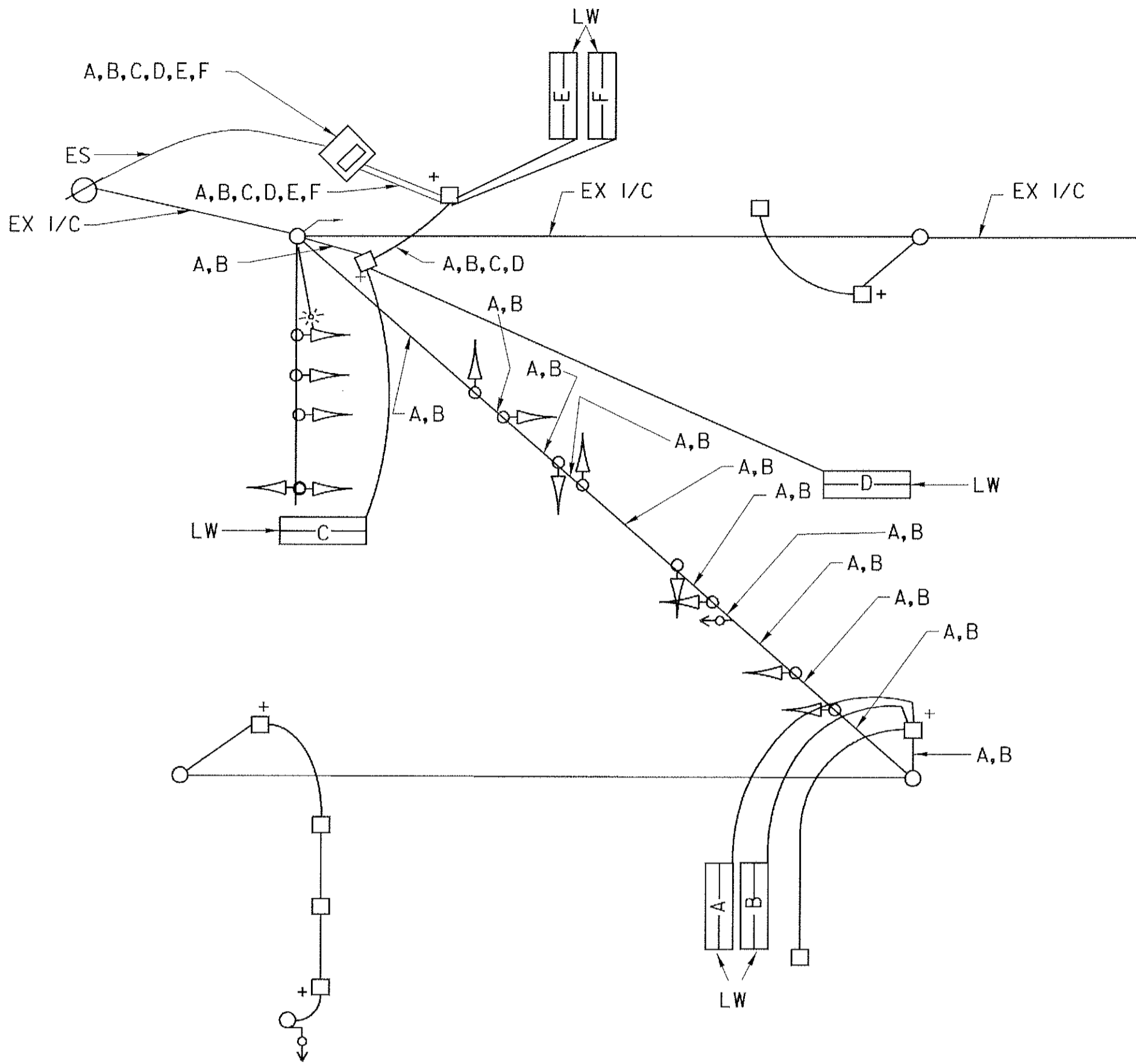
MR. LAWRENCE E. ELLIOTT
ASSISTANT DISTRICT ENGINEER - TRAFFIC
PHONE: 410-841-5450

MR. JOHN MAYS
UTILITY ENGINEER
PHONE: 410-841-5450

MR. RICHARD L. DAFF, SR.
CHIEF, TRAFFIC OPERATIONS DIVISION
PHONE: 410-787-7630

THE POWER COMPANY REPRESENTATIVE IS:
SOUTHERN MARYLAND ELECTRIC COOPERATIVE (SMECO)
PO BOX 1937
HUGHESVILLE, MD 20637-1937
301-274-3111

WIRING DIAGRAM



WIRING KEY

A,B,C,D,E,F } 2-CONDUCTOR ELECTRICAL CABLE
(ALUMINUM SHIELDED)

LW - LOOP WIRE (NO. 14 A.W.G.)

ES - EXISTING SERVICE

+ - 3/4IN. x 10 FT. GROUND ROD

EX I/C - EXISTING INTERCONNECT
(12 PAIR COMMUNICATION CABLE,
SELF SUPPORTING)

PHASE 2
TEMPORARY TRAFFIC SIGNALS

SS-5

**RUMMEL, KLEPPER
& KAHL, LLP**

CONSULTING ENGINEERS

81 MOSHER STREET
BALTIMORE, MARYLAND 21217

TELE: (410) 728-2900 FAX: (410) 728-3160

REVISIONS:	APPROVALS:
	CHIEF SIGNAL DESIGN SECTION
	ASST. DISTRICT ENGINEER - TRAFFIC
	CHIEF TRAFFIC ENGINEERING DESIGN DIVISION
	DIRECTOR OFFICE OF TRAFFIC & SAFETY

MDOT - STATE HIGHWAY ADMINISTRATION Office of Traffic & Safety TRAFFIC ENGINEERING DESIGN DIVISION				LOG MILE # 18023514.97	
DRAWN BY: DED/SMH		MD 235 @ MD 237 / MAPLE RD.			
DES. BY: DK/DLA/SMH		SIGNAL PLAN			
CHK. BY: BJH		COUNTY: ST. MARY'S			
DATE: MAY 7, 1999		F.A.P. NO. SEE TITLE SHEET		TS/STD. NO.: 912I-X2-G11	
SCALE: N.T.S.		S.H.A. NO. SEE TITLE SHEET		SHEET NO. 149 OF 241	